

This listing of claims will replace all prior versions, and listings, of claims in the application:

II. Listing of Claims:

Claim 1 (Currently Amended): A lightweight, ballistic resistant panel for limiting the penetration of an incoming projectile, comprising:

at least one first layer formed of a woven ballistic resistant material;

at least one second layer formed of a non-woven ballistic resistant material;

A/ a first series of connectors intermittently joining said at least one first layer and said at least one second layer; and

Cont a second series of connectors intermittently joining said at least one first layer and said at least one second layer, the first series of connectors intersecting the second series of connectors to form a quilting pattern defining bounded areas of unconnected material;

wherein the ~~first and second series of connectors define~~ unconnected areas of material ~~having~~ have a cumulative surface area substantially larger than the cumulative surface area of the connected material.

Claim 2 (Canceled)

Claim 3 (Canceled)

Claim 4 (Canceled)

Claim 5 (Canceled)

Claim 6 (Currently Amended): The ballistic panel of claim 1, ~~comprising:~~ wherein the at least one first layer is an initial layer of woven ballistic resistant material having a front surface facing the potential projectile and an opposing back surface; and

wherein the at least one second layer is five layers formed of non-woven ballistic resistant material adjacent to said opposing back surface of said initial layer; and

further comprising a seventh layer formed of a woven ballistic resistant material adjacent to said five layers; an additional five layers of non-woven ballistic resistant material adjacent to said seventh layer; and a thirteenth layer formed of a woven ballistic resistant material adjacent to said additional five layers.

Claim 7 (Canceled)

Claim 8 (Original): The ballistic panel of claim 1 further comprising a protective sheath.

Claim 9 (Currently Amended): The ballistic panel of claim 1 wherein said first series of connectors and said second series of connectors are formed of materials selected from a group consisting of aramid polymers, polyolefins, polyethylene and ~~high-molecular-weight~~ polypropylene.

Claim 10 (Original): The ballistic panel of claim 1 wherein said first series of connectors and said second series of connectors comprise a filament of cotton.

Claim 11 (Original): The ballistic panel of claim 1 wherein the panel includes a plurality of said first layer and a plurality of said second layer; in a ratio of at least three of said second layer to each one of said first layer.

Claim 12 (Currently Amended): The ballistic panel of claim 1 wherein the ~~first and second series of connectors form a quilted pattern defining~~ bounded areas of unconnected material are bounded squares of unconnected material.

Claim 13 (Original): The ballistic panel of claim 1 further comprising connectors to join the perimeter of the layers.

Claim 14 (Canceled)

Claim 15 (Currently Amended): ~~The composite ballistic panel of claim 14, further comprising:~~

A composite ballistic panel, comprising:

a first ballistic panel, comprising:

at least one first layer formed of a woven ballistic resistant material;

at least one second layer formed of a non-woven ballistic resistant material;

a first series of connectors intermittently joining said at least one first layer and said at least one second layer; and

a second series of connectors intermittently joining said at least one first layer and said at least one second layer;

wherein the first and second series of connectors define unconnected areas of material having a cumulative surface area substantially larger than the cumulative surface area of the connected material;

a second ballistic panel, comprising:

at least one first layer formed of a woven ballistic resistant material;

at least one second layer formed of a non-woven ballistic resistant material;

a first series of connectors intermittently joining said at least one first layer and said at least one second layer; and

a second series of connectors intermittently joining said at least one first layer and said at least one second layer;

wherein the first and second series of connectors define unconnected areas of material having a cumulative surface area substantially larger than the cumulative surface area of the connected material; and

a hard coupon, comprising:

a first layer formed of a ballistic resistant material; and

a second layer formed of a ballistic resistant material;

wherein said first layer and said second layers are joined together via a laminate.

Claim 16 (Original): The composite ballistic panel of claim 15 further comprising a protective sheath.

Claims 17-26 (Withdrawn)

Claim 27 (Currently Amended): A method for making a lightweight ballistic panel, comprising the steps of:

providing at least one layer formed of a woven ballistic resistant material and at least one layer formed of a non-woven ballistic resistant material;

aligning the at least one layer formed of a woven ballistic resistant material and the at least one layer formed of a non-woven ballistic resistant material in a stacked configuration; and
intermittently interconnecting a small portion of the layers in a first direction; and
intermittently interconnecting a small portion of the layers in a second direction intersecting the first direction, the intermittent interconnection in the first direction and the second direction defining a quilting pattern forming bounded areas of unconnected material ~~while leaving a substantially larger portion of the layers unconnected.~~

Claim 28 (Currently Amended): The method of claim 27 wherein the step of ~~aligning~~ providing the at least one layer formed of a woven ballistic resistant material and at least one layer formed of non-woven ballistic resistant material, layers in a stacked configuration, comprises:

providing an initial layer formed of woven ballistic resistant material;
stacking five layers formed of non-woven ballistic resistant material on top of the initial layer;
stacking a seventh layer formed of woven ballistic resistant material on top of the five layers;
stacking five additional layers formed of non-woven ballistic resistant material on top of the seventh layer; and
stacking a thirteenth layer formed of woven ballistic resistant material on top of the five additional layers.

Claim 29 (Canceled):

Claim 30 (Canceled):

Claim 31 (Currently Amended): The method of claim 27 wherein the ~~step~~ steps of intermittently interconnecting a small portion of the layers in the first and second directions, ~~comprises~~ each comprise joining the layers together via a filament of ~~high-strength~~ cotton.

Claim 32 (Canceled):

Claim 33 (Currently Amended): The method of claim 32 ~~wherein~~ further comprising the step of interconnecting ~~a small portion of the layers further comprises interconnecting~~ the perimeter of the layers.

Claim 34 (Canceled):

Claim 35 (Original): The method of claim 27 further comprising the step of providing a protective sheath for the ballistic panel.

Claim 36 (Canceled):

Claim 37 (Currently Amended): ~~The method of claim 36 further comprising the step of~~ A method for making a lightweight, composite ballistic panel, comprising the steps of:

providing a first ballistic panel, comprising the steps of:

aligning at least one layer formed of a woven ballistic resistant material and at least one layer formed of a non-woven ballistic resistant material in a stacked configuration; and

interconnecting a small portion of the layers while leaving a substantially larger portion of the layers unconnected;

providing a second ballistic panel, comprising the steps of:

aligning at least one layer formed of a woven ballistic resistant material and at least one layer formed of a non-woven ballistic resistant material in a stacked configuration; and

interconnecting a small portion of the layers while leaving a substantially larger portion of the layers unconnected;

providing a hard coupon formed of laminated layers of ballistic resistant material; and

aligning the hard coupon with the first and second ballistic panels in a stacked configuration.

Claims 38-48 (Withdrawn)
